

# INTERNATIONAL STANDARD

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## **Pulps — Standard water for physical testing**

*Pâtes — Eau normalisée pour essais physiques*

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Reference number  
ISO 14487:1997(E)

## Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 14487 was prepared by Technical Committee ISO/TC 6, *Paper, board and pulps*, Subcommittee SC 5, *Test methods and quality specifications for pulp*.

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## Introduction

The concentration of electrolytes (salts) in a pulp suspension influences the drainability properties considerably. It is therefore important that the water used for certain tests conforms to given requirements concerning its electrolyte content.

### NOTES

- 1 Even low concentrations of electrolytes greatly affect drainability properties.
- 2 Pulps normally contain electrolytes. This raises the salt concentration in the pulp suspension and increases drainability.

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# Pulps — Standard water for physical testing

## 1 Scope

This International Standard specifies the requirements for standard water intended for preparing pulp suspensions to be used in tests where drainability properties are of importance, including laboratory beating. It is applicable to all kinds of pulp.

## 2 Conformance

The conformance of the water shall be controlled in accordance with clause 4.

## 3 Definition

For the purposes of this International Standard, the following definition applies.

**3.1 standard water:** Water purified to electrical conductivity  $\leq 0,25$  mS/m at 25 °C.

## 4 Testing

### 4.1 Apparatus

**4.1.1 Ordinary laboratory glassware.**

**4.1.2 Conductivity meter,** capable of indicating the conductivity of water with an error of less than 5 % at a conductivity of around 0,25 mS/m.

### 4.2 Procedure

Transfer 100 ml of the standard water into a beaker and adjust its temperature to 25 °C  $\pm$  1 °C. Measure the conductivity using the conductivity meter in accordance with the manufacturer's operating instructions.

## 5 Preparation

Prepare the standard water by distillation, ion exchange, reverse osmosis or other suitable method.

## 6 Storage

Contamination of water during storage may arise principally from dissolution of soluble constituents from glass or plastic containers or absorption of atmospheric carbon dioxide and any impurities present in the laboratory atmosphere.

For this reason, standard water shall be protected from atmospheric contamination and from dissolution from container and tubing materials. It shall be stored in suitable inert, clean, airtight, full containers which have been thoroughly rinsed with water of similar grade.

## 7 Test report

Test results obtained from pulp suspensions in standard water, or from laboratory sheets prepared from such suspensions, shall be given in a test report, stating clearly that the water used was standard water according to this International Standard.

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